

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): An information recording medium manufacturing method, comprising:

~~a scramble rule acquiring step for acquiring a scramble rule to apply to the content to be recorded on an~~ the information recording medium, wherein said scramble rule describes a previously set settings value;

~~a scrambling processing step for generating scrambled content by executing scrambling processing as to the content, according to the acquired scramble rule, acquired in said scramble rule acquiring step, wherein the scrambling processing includes is Exclusive-OR computing processing of;~~

- (a) content data which includes PID data including a data-type information within a transport stream packet; and
- (b) said a previously set settings value or a value calculated based on said previously set this settings value; and

~~a step for recording:~~

- (a) the generated scrambled content; generated in said scrambling processing step;
- (b) a table describing locations of the content data which includes said PID data including said data-type information within said transport stream packet executed in the Exclusive-OR computing processing; and
- (c) the scramble rule applied to the content which includes said PID data including said data-type information within said transport stream packet, onto an information recording medium.

Claim 2 (currently amended): ~~The An information recording medium manufacturing method of according to Claim 1, which includes wherein said scramble rule acquiring step is a step for acquiring another individual scramble rule rules for another each recording content or for a each management unit, in the event of a plurality of content to be recorded to the information recording medium.~~

Claim 3 (currently amended): ~~The An information recording medium manufacturing method of according to Claim 1, which includes wherein said scrambling processing step is a step for performing processing to replace at least one portion of the content data to be recorded to said information recording medium; and~~

wherein said scramble rule includes data which points to the position to which the content data is to be replaced.

Claim 4 (currently amended): ~~The An information recording medium manufacturing method of according to Claim 1, which includes: wherein the scrambling processing executed in said scrambling processing step is~~

acquiring another scrambling rule to apply to another content to be recorded on the information recording medium;

generating another scrambled content by executing another scrambling processing which includes shuffling processing of shuffle elements which are set as content-comprising data; and

wherein said another scramble rule includes is data which describes the shuffle state of said shuffle elements.

Claim 5 (canceled).

Claim 6 (currently amended): ~~The An information recording medium manufacturing method of according to Claim 1, which includes: wherein the scrambling processing executed in said scrambling processing step is a~~

acquiring another scrambling rule to apply to another content to be recorded on the information recording medium;

generating another scrambled content by executing another scrambling processing which includes rotating processing of the content-comprising data; and

wherein said another scramble rule includes ~~is~~ data describing a shift amount in the rotation.

Claim 7 (currently amended): ~~The An information recording medium manufacturing method of according to Claim 1, which includes further comprising an encrypting processing step for executing encrypting processing of the recorded content of the information recording medium, after executing said scrambling processing step, or before executing the same.~~

Claim 8 (currently amended): ~~The An information recording medium manufacturing method of according to Claim 7, which includes: wherein the scrambling processing executed in said scrambling processing step is a~~

generating another scrambled content by executing another scrambling processing which includes shuffling processing of the-shuffled elements which are set as content-comprising data; and wherein the encrypting processing executed in said encrypting processing step is

executing encrypting processing in CBC mode ~~executed~~ on data units the same size as that of said shuffled elements.

Claim 9 (currently amended): ~~The~~ An information-recording medium manufacturing method of according to Claim 1, wherein the content data for processing which is executed in the Exclusive-OR computing further includes scrambling processing in said scrambling processing step is data which at least includes one of the following:

- (1) a portion of I-picture slice encoded data included in MPEG encoded data; and;
- (2) a portion of the sequence header; and
- (3) ~~PID data storing the data type information within the transport stream packet.~~

Claim 10 (currently amended): An information processing device for executing content recording processing as to an information recording medium, the information processing device comprising:

a processor;

a memory device which stores instructions, which when executed by the processor, cause the processor to:

- (a) acquire a scrambling processing unit for acquiring a scramble rule to be applied to the content to be recorded on the information recording medium, wherein said scramble rule describes a previously set settings value; and for
- (b) generate scrambled content by executing scrambling processing as to the content according to the acquired scramble rule, wherein the scrambling processing including is-Exclusive-OR computing processing of:
 - (i) content data which includes PID data including a data-type information within a transport stream packet; and
 - (ii) said a previously set settings value or a value calculated based on said previously set this-settings value; and
- (c) record: a recording processing unit for recording
 - (i) the generated scrambled content; generated in said scrambling processing unit;
 - (ii) a table describing locations of the content data which includes said PID data including said data-type information within said transport stream packet executed in the Exclusive-OR computing processing; and
 - (iii) the scramble rule applied to this content which includes said PID data including said data-type information within said transport stream packet, to the information recording medium.

Claim 11 (currently amended): ~~The~~ An-information processing device of ~~according to~~ Claim 10, wherein when executed by the processor, the plurality of instructions cause the processor to acquire another said scrambling processing unit has a configuration for acquiring individual-scramble rule rules for another each-recording content or for a each-management unit, in the event of a plurality of content to be recorded to the information recording medium, and executing scrambling processing for each content according to the acquired scramble rule.

Claim 12 (currently amended): ~~The~~ An-information processing device of ~~according to~~ Claim 10, wherein when executed by the processor, the plurality of instructions cause the processor to said scrambling processing unit has a configuration for performing processing to replace at least one portion of the content data to be recorded to said information recording medium;

and wherein said scramble rule includes data which points to the position to which the content data is to be replaced.

Claim 13 (currently amended): ~~The~~ An-information processing device of ~~according to~~ Claim 10, wherein when executed by the processor, the plurality of instructions cause the processor to: the scrambling processing executed in said scrambling processing unit is

acquire another scrambling rule to apply to another content to be recorded on the information recording medium;

generate another scrambled content by executing another scrambling processing which includes shuffling processing of shuffle elements which are set as content-comprising data; and

wherein said another scramble rule includes ~~is~~-data which describes the shuffle state of said shuffle elements.

Claim 14 (canceled).

Claim 15 (currently amended): The An-information processing device of according to Claim 10, wherein when executed by the processor, the plurality of instructions cause the processor to: the scrambling processing executed in said scrambling processing unit is a
acquire another scrambling rule to apply to another content to be recorded on the information recording medium;
generate another scrambled content by executing another scrambling processing which includes rotating processing of the content-comprising data;
and wherein said another scramble rule includes ~~is~~-data describing a shift amount in the rotation.

Claim 16 (currently amended): The An-information processing device of according to Claim 10, wherein when executed by the processor, the plurality of instructions cause the processor to execute further comprising an encrypting processing unit for executing encrypting processing of the recorded content of the information recording medium.

Claim 17 (currently amended): The An-information processing device of according to Claim 16, wherein when executed by the processor, the plurality of instructions cause the processor to: the scrambling processing executed in said scrambling processing unit is a
generate another scrambled content by executing another scrambling processing which includes shuffling processing of the-shuffled elements which are set as content-comprising data;
and wherein the encrypting processing executed in said encrypting processing unit is
execute encrypting processing in CBC mode ~~executed~~ on data units the same size as that of said shuffled elements.

Claim 18 (currently amended): ~~The An-information processing device of according to Claim 10, wherein the content data for processing which is executed by said Exclusive-OR computing processing further scrambling processing unit is data for scrambling processing which at least includes at least one of the following:~~

- ~~(1) a portion of I-picture slice encoded data included in MPEG encoded data; and,~~
- ~~(2) a portion of the sequence header; and~~
- ~~(3) PID data storing the data type information within the transport stream packet.~~

Claim 19 (currently amended): An information processing device for executing playback processing of ~~the~~ content recorded on an ~~the~~ information recording medium, the information processing device comprising:

a processor;

a memory device which stores instructions, which when executed by the processor, cause the processor to:~~a scrambling processing unit for executing~~

(a) descramble ~~desrambling processing of~~ the content recorded on the information recording medium by using an ~~, wherein said descrambling processing executed is~~ Exclusive-OR computing processing of:

(i) content data which includes PID data including a data-type information within a transport stream packet; and

(ii) a previously set settings value or a value calculated based on the settings value; wherein said scrambling processing unit executes analyzing of the

(b) decipher a scramble rule which corresponds ~~is the scrambling processing information corresponding to~~ the content stored in said information recording medium, wherein said scramble rule describes said previously set settings value; and, and from

(c) based on the results of the deciphered scramble rule, deciphering, executes descrambling processing to descramble the scramble rule for each of a plurality of ~~the~~ acquired individual scrambled content data, and wherein locations of scrambled content data which includes said PID data including said data-type information within said transport stream packet are found based on a table describing locations of the scrambled content data which includes said PID data including said data-type information within said transport stream packet executed in the Exclusive-OR computing processing.

Claim 20 (currently amended): The An-information processing device of according to Claim 19, wherein when executed by the processor, the plurality of instructions cause the processor to:

~~acquire another said scrambling processing unit has a configuration for acquiring individual-scramble rule rules for another each-recording content or for a each-management unit, in the event of a plurality of content to be recorded to the information recording medium;; and executing descrambling processing for each~~

~~descramble said another recording content according to the acquired another scramble rule.~~

Claim 21 (currently amended): The An-information processing device of according to Claim 19, wherein when executed by the processor, the plurality of instructions cause the processor to: ~~said scrambling processing unit has a configuration for performing processing to~~

~~replace at least one portion of the content data to be recorded to said information recording medium; and acquires~~

~~acquire the position data for pointing to the position to which the acquired content data is replaced from the results of analyzing said scramble rule, and based on this position data, execute executes descrambling processing.~~

Claim 22 (currently amended): The An-information processing device of according to Claim 19, wherein when executed by the processor, the plurality of instructions cause the processor to:

~~decipher another scramble rule which corresponds to the content stored in said information recording medium;~~

~~restore a said descrambling processing executed with said scrambling processing unit is processing for restoring the shuffle state of a plurality of the shuffle elements which are set as content-comprising data,; and wherein said another scramble rule includes is-data describing the shuffle state of said shuffle elements; and wherein said scramble processing unit executes~~

~~execute shuffle state restoring processing of the shuffle elements based on said another scramble rule.~~

Claim 23 (canceled).

Claim 24 (currently amended): The An-information processing device of according to Claim 19, wherein when executed by the processor, the plurality of instructions cause the processor to:

descramble another content recorded on the information recording medium by using a
~~said descrambling processing executed with said scrambling processing unit is rotation~~
processing for the content-comprising data;

decipher and wherein said another scramble rule which includes is-data describing the
shift amount in the rotation; and ~~wherein said scramble processing unit executes~~

execute rotation restoring processing based on said shift amount, based on said another
scramble rule.

Claim 25 (currently amended): The An-information processing device of according to Claim 19, wherein when executed by the processor, the plurality of instructions cause the processor to execute said information processing device further comprises an encrypting processing unit for executing decrypting processing of the recorded content of the information recording medium.

Claim 26 (currently amended): The An-information processing device of according to Claim 25, wherein when executed by the processor, the plurality of instructions cause the processor to:

descramble another content recorded on the information recording medium by using a
~~said scrambling processing executed in said scrambling processing units is shuffling processing~~
of a plurality of the shuffle elements which are set as content-comprising data; and wherein the
~~decrypting processing executed in said encrypting processing units is~~

execute decrypting processing in CBC mode which executed on data units the same size
as that of said shuffled elements.

Claim 27 (currently amended): ~~The An~~ information processing device ~~of according to~~ Claim 19, wherein the scrambled content data further ~~at least includes~~ at least one of the following:

- (1) a portion of I-picture slice encoded data included in MPEG encoded data; and;
- (2) a portion of the sequence header; and
- ~~(3) PID data storing the data type information within the transport stream packet.~~

Claim 28 (currently amended): An information recording medium comprising:for
storing:

recorded data as scrambled content having scrambling processing executed according to a
scramble rule set for each recording content or for every management unit, wherein said
scramble rule describes a previously set settings value, wherein said scrambled content is
generated by Exclusive-OR computing processing of:

(i) content which includes PID data including a data-type information within
a transport stream packet; and

(ii) said a previously set settings value or a value calculated based on said
previously set this settings value;

a table describing locations of the scrambled content which includes said PID data
including said data-type information within said transport stream packet; and

the scramble rule applied to said scrambled content which includes said PID data
including said data-type information within said transport stream packet.

Claim 29 (currently amended): The An-information recording medium of according to
Claim 28, wherein:

said scrambling processing is processing for replacing at least one portion of said content;
and ~~wherein~~

said scramble rule is a rule for recording the data showing the position of the portion of
data of said content data to be replaced.

Claim 30 (currently amended): The An-information recording medium of according to
Claim 28, which includes:wherein

another said-scrambled content is scrambled content-generated by another the-shuffling
processing of a the-shuffle element set as the-content-comprising data; and ~~wherein~~

another said scramble rule including is-data describing a the shuffle state of said shuffle
elements.

Claim 31 (canceled).

Claim 32 (currently amended): ~~The An~~-information recording medium of according to Claim 28, which includes: ~~wherein~~

another said scrambled content ~~is scrambled content~~ generated by rotation processing of the content-comprising data; and ~~wherein~~

another said scramble rule including ~~is~~ data describing a shift amount in the rotation.

Claim 33 (currently amended): ~~The An~~-information recording medium of according to Claim 28, wherein:

said scrambled content is scrambled content generated by shuffling processing of the shuffle elements which as set as content-comprising data; and ~~wherein~~

said information recording medium has the configuration to record content encrypted by an encrypting processing in CBC mode which executes with data the same size as that of said shuffled elements as a unit.

Claim 34 (currently amended): ~~The An~~-information processing device of according to Claim 28, ~~having a configuration wherein~~ said scrambled content further at least includes, as scrambling processing data, at least one of the following:

- (1) a portion of I-picture slice encoded data included in MPEG encoded data; and;
- (2) a portion of the sequence header, ~~and~~
- (3) ~~PID data storing the data type information within the transport stream packet.~~

Claim 35 (currently amended): An information processing method for executing content recording processing to an information recording medium, said method comprising:

~~a scramble rule acquiring step~~ for acquiring a scramble rule to apply to the content to be recorded on the information recording medium, wherein said scramble rule describes a previously set settings value;

~~a scrambling processing step for generating scrambled content by executing the scrambling processing as to the content, according to the acquired scramble rule, acquired in said scramble rule acquiring step,~~ wherein the scrambling processing includes is Exclusive-OR computing processing of:

- (a) content data which includes PID data including a data-type information within a transport stream packet; and
- (b) said a previously set settings value or a value calculated based on said previously set this settings value; and

~~a step for recording:~~

- (a) the generated scrambled content; ~~generated in said scrambling processing step,~~
- (b) a table describing locations of the content data which includes said PID data including said data-type information within said transport stream packet executed in the Exclusive-OR computing processing; and
- (c) the scramble rule applied to the content which includes said PID data including said data-type information within said transport stream packet,
onto an information recording medium.

Claim 36 (currently amended): An information processing method for executing playback processing of ~~the~~ content recorded on an information recording medium, said method comprising: ~~a scrambling processing step for executing~~

~~descrambling processing of the content recorded on the information recording medium,~~
wherein said descrambling includes processing is Exclusive-OR computing processing of:

(a) content data which includes said PID data including said data-type information within said transport stream packet; and

(b) a previously set settings value or a value calculated based on the settings value; wherein said scrambling processing step further has a scramble rule analyzing step for executing analyzing of the

deciphering a scramble rule which corresponds is the scrambling processing information corresponding to the content which includes said PID data including said data-type information within said transport stream packet stored in said information recording medium, wherein said scramble rule describes said previously set settings value; and, and a descrambling step for,

based on the results of said deciphered scramble rule, descramble scramble rule analyzing step, executing descrambling processing corresponding to the scramble rule for a plurality of the acquired individual scrambled content data which includes said PID data including said data-type information within said transport stream packet, and wherein locations of scrambled content data are found based on a table describing the locations of the scrambled content data.

Claim 37 (currently amended): A computer readable medium encoded with a computer program for executing content recording processing to an information recording medium with a computer, said program comprising:

a scramble rule acquiring step for acquiring a scramble rule to apply to the content to be recorded on the information recording medium, wherein said scramble rule describes a previously set settings value;

a generating step for generating scramble content by a scrambling processing step for executing ~~the scrambling processing~~ as to the content, according to the scramble rule acquired in said scramble rule acquiring step, wherein the scrambling processing includes is Exclusive-OR computing processing of:

- (a) content data which includes PID data including a data-type information within a transport stream packet; and
- (b) said a previously set settings value or a value calculated based on said previously set this settings value; and

a step for recording:

- (a) the generated scrambled content; ~~generated in said scrambling processing step;~~
- (b) a table describing locations of the content data which includes said PID data including said data-type information within said transport stream packet ~~executed in the Exclusive-OR computing processing;~~ and
- (c) the scramble rule applied to the content which includes said PID data including said data-type information within said transport stream packet, onto an information recording medium.

Claim 38 (currently amended): A computer readable medium encoded with a computer program for executing playback processing of the content recorded on the information recording medium with a computer, said program comprising:

a scrambling processing step for executing descrambling processing of the content recorded on the information recording medium, wherein said descrambling processing includes ~~is-Exclusive-OR~~ computing processing of:

(a) content data which includes PID data including a data-type information within a transport stream packet; and

(b) a previously set settings value or a value calculated based on the settings value; ~~wherein said scrambling processing step further comprises~~

a scramble rule analyzing step for executing analyzing of a the ~~the~~ scramble rule which is the scrambling processing information corresponding to the content which includes said PID data including said data-type information within said transport stream packet stored in said information recording medium, wherein said scramble rule describes said previously set settings value; and

a descrambling step for, based on the results of said scramble rule analyzing step, executing descrambling processing corresponding to the scramble rule for the acquired individual scrambled content data, ~~and~~ wherein locations of scrambled content data are found based on a table describing the locations of the scrambled content data which includes said PID data including said data-type information within said transport stream packet.